## INTERNATIONAL SEARCH REPORT

International application No. PCT/JP03/15505

A. CLASS	IFICATION OF SUBJECT MATTER C1 B25J9/06			
According to	International Patent Classification (IPC) or to both nat	ional classification and IPC		
	SEARCHED			
Minimum de	ocumentation searched (classification system followed b C1 B25J1/00-21/02, B23Q1/00-1	y classification symbols) /76, F16H19/00-37/16	•	
Jitsu Kokai	Jitsuyo Shinan Koho 1971-2004	Toroku Jitsuyo Shinan Konc	1994-2004	
Electronic da	ata base consulted during the international search (name	of data base and, where practicable, sear	ch terms used)	
C. DOCUI	MENTS CONSIDERED TO BE RELEVANT			
Category*	Citation of document, with indication, where app	propriate, of the relevant passages	Relevant to claim No.	
X Y	JP 11-287303 A (Seishiro MUN) 19 October, 1999 (19.10.99), Par. Nos. [0008] to [0011]; F (Family: none)		1,5 2-4,6-8	
Y	JP 61-61789 A (Matsushita Ele Co., Ltd.), 29 March, 1986 (29.03.86), Page 1, lower right column, l (Family: none)		2,3,6,8	
Y	JP 8-174305 A (NTN Corp.), 09 July, 1996 (09.07.96), Par. No. [0004] (Family: none)		3	
		•		
× Furth	Further documents are listed in the continuation of Box C. See patent family annex.			
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "E" earlier document but published on or after the international filing date  "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "P" document published prior to the international filing date but later than the priority date claimed		later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family		
Date of the	actual completion of the international search April, 2004 (12.04.04)	Date of mailing of the international sear 27 April, 2004 (27	ch report .04.04)	
Name and mailing address of the ISA/		Authorized officer		
Japanese Patent Office				
Facsimile No.		Telephone No.		

## INTERNATIONAL SEARCH REPORT

International application No. PCT/JP03/15505

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 11-226062 A (Seishiro YOSHIHARA), 24 August, 1999 (24.08.99), Par. No. [0007]; Fig. 1 (Family: none)	4,6,8
Y	EP 997239 A2 (FANUC LTD.), 03 May, 2000 (03.05.00), Full text; all drawings & JP 2000-126954 A	7,8
E,X	JP 2004-9276 A (NTN Corp.), 15 January, 2004 (15.01.04), Full text; all drawings (Family: none)	1-8
A	JP 10-138177 A (Director General, Agency of Industrial Science and Technology), 26 May, 1998 (26.05.98), Full text; all drawings (Family: none)	1-8
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